



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

Applicants : David R. Hembree et al.
Serial No. : 09/026,080
Filed : February 19, 1998
Title : A SPRING ELEMENT FOR USE IN AN APPARATUS FOR ATTACHING
TO A SEMICONDUCTOR AND A METHOD OF ATTACHING
Docket : MIO 0020 IA
Examiner : Roy Potter
Art Unit : 2822

Honorable Commissioner for Patents & Trademarks
Washington, DC 20231

Sir:

DECLARATION UNDER 37 CFR 1.131

We, David R. Hambree, Salman Akram and Derek Gochnour declare and state:

1. We are the coinventors of at least claims 1 and 4 of the above-identified patent application, and are familiar with both the Examiner's June 5, 2000 rejection of said claims and the MacDonald, Jr. et al. (U.S. Patent 5,914,864) reference cited therein as support for said rejection.
2. Prior to the December 22, 1997 filing date of MacDonald, Jr. et al., we conceived the idea of using a spring element with an elastic member containing holes therein for use in a semiconductor attaching and testing apparatus as described and claimed in our application. An invention disclosure (Atch. A), discussing, among other things, the formation of holes in the elastic element to provide different spring forces, was prepared and signed by us. In accordance with our employer's practice, we forwarded the disclosure to the Micron Patent Department.
3. In accordance with current practice, as sanctioned under MPEP § 715.07, we have left blank all diligence dates up to a time just prior to the above-cited reference's filing date of December 22, 1997. At least from a time just prior to December 22, 1997 until the February 19, 1998 filing date of our present application less than two months later, we were diligent in our efforts to pursue patent protection. Our diligence, and the diligence of those who acted on our behalf, is evidenced by the following acts.

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Serial No. 09/045,465
Docket No. MIO 0020 IA
Art Unit - 2822

4. Prior to December 22, 1997, our patent counsel, Mr. Lynch, sent our invention disclosure, along with other disclosures from Micron inventors (Atch. B), to Mr. Hagan of Killworth, Gottman, Hagan & Schaeff (KGHS) to request that Mr. Hagan's firm prepare a patent application on various attributes of the semiconductor attaching and testing apparatus that specifically related to details of an interconnect structure.
5. Again, prior to December 22, 1997, KGHS, after creating a new parent file (Atch. C) relating to the interconnect device, sent us a letter (Atch. D) and draft patent application to review. We reviewed the application and returned the draft application to KGHS, and provided a list of potentially relevant articles and patents.
6. On November 13, 1997, our patent assistant, Trish Homan-Haider, sent a letter (Atch. E) to KGHS asking them to file either a single application covering as many aspects of the invention as possible, or, in the alternative, numerous applications to cover the various aspects.
7. On November 26, 1997, KGHS sent us a letter (Atch. F) and second draft of the original parent patent application for our review.
8. On December 16, 1997, KGHS created a new continuation-in-part (C-I-P) file (Atch. G) based on our invention disclosure and the parent patent application to cover additional aspects our invention which are the subject of the present application.
9. On January 14, 1998, KGHS sent a letter (Atch. H) and finalized version of the parent patent application, in conjunction with papers for our execution.
10. On January 15, 1998, KGHS sent a letter (Atch. I) and draft version of the patent application, in conjunction with the drawings for our review.
11. On January 19, 1998, we sent a letter (Atch. J), the parent patent application, disclosure and executed papers to KGHS for filing in the United States Patent & Trademark Office (USPTO).
12. On January 20, 1998, KGHS filed the parent patent application in the USPTO, with the date shown by the USPTO's filing receipt (Atch. K). That application became U.S. Application Serial No. 09/009169.

Serial No. 09/045,465
Docket No. MIO 0020 IA
Art Unit - 2822

13. On February 16, 1998, KGHS sent us a letter (Atch. L) and final draft of the application incorporating our changes to the earlier draft, as well as formal papers for our execution.
14. On February 19, 1998, KGHS filed our C-I-P application in the USPTO with the date shown by the USPTO's filing receipt (Atch. M).
15. Further, we hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application and any patent issued thereon.

David R. Hembree 8/17/00

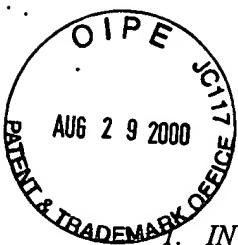
David R. Hembree

Salman Akram 8/22/00

Salman Akram

Derek Gochnour 8/17/00

Derek Gochnour

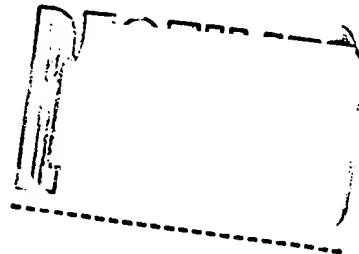


INVENTION DISCLOSURE

MIO 020 PA

KGD

ELASTOMER



INVENTOR(S):

DAVE HEMBREE
SALMAN AKRAM
DEREK GOCHNOUR

2. DESCRIPTION

2.1 Title of invention:

METHOD OF MAKING LOW PSI FROM HIGH PSI ELASTOMERS OR OTHER DIFFERENT PSI MATERIALS

2.2 Brief description:

In this method using high Psi Elastomers we use a water drill to form holes into the elastomer material. This way depending on the size of the holes and the frequency the overall PSI of the material can be modified. Other Drilling methods can be employed.

Also, see attached journal dwgs. for other methods.
(extrusion, molding, sprayed layered, woven, o-ring or other)

2.3 Also attach a complete description, including drawings or sketches and articles relevant to the invention. Legible photocopies of laboratory notebooks are acceptable.

3. INFORMATION CONCERNING CONCEPTION OF INVENTION

3.1 CONCEPTION AND DOCUMENTATION OF THE INVENTION

- Identify the date when you first conceived the invention. (give the earliest date of which you are sure.)
(window pane discussion)
- To whom was the idea first described and on what date? (Other than a co-inventor.)

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SEP - 1 2000

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c. Identify the date of the first tangible record such as computer simulation, tape out, drawing or written description. Please specify type and location.

3.2 CONCEPTION OF THE INVENTION

a. Please identify related invention disclosures, patents or other publications describing similar ideas, and other companies working in the same field. Attach copies.

b. What is the closest technology, of which you are aware?

c. Identify the advantages of this invention over previous technology.

rate) can be varied. Previous technology had one spring
rate dependant on material properties. Spring force (spring

3.3 IMPORTANT DATES

a. Has the invention been disclosed outside the company? No
If yes, to whom, when, and in what form?

b. Have any articles describing your invention been published?
No If yes, list author(s), title of article, publication and date.

c. Have any engineering samples been given out? No If yes, whom and on what date?

d. Has any product using the invention been sold or offered for sale? No

3.4 DISPOSITION OF THE INVENTION

a. When will (or did) Micron begin use of the invention experimentally? N/A

b. When will (or did) Micron begin production of this invention? N/A

3.5 MISCELLANEOUS INFORMATION

a. Was the invention developed during a joint development
agreement or other contract with an outside company? No

b. Please list developmental work outside of the company (including Government
proposal or contract).

4. INVENTORS:

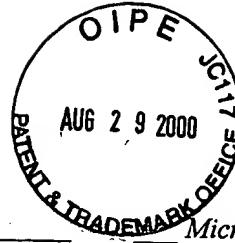
Name: David R. Hembree Micron Technology Inc.

Micron Phone: 84335 Micron Mail Stop: 992 Dept. Name: ASSM Dept. #: 260

Home Address: 10855 W. Smoke Ranch Drive, Boise, Id. 83709

Citizenship: USA Supervisor: Alan Wood

Signature: David R. Hembree Date:



Name: Salman Akram Micron Technology Inc.

Micron Phone: 85068 Micron Mail Stop: 992 Dept. Name: _____ Dept. #: _____

Home Address: 1463 E. Regatta St Boise ID 83706

Citizenship: Pakistan Supervisor: Alan Wood

Signature: Salman Akram Date: _____

Name: Derek Gochmour Micron Technology Inc.

Micron Phone: 83070 Micron Mail Stop: 992 Dept. Name: _____ Dept. #: _____

Home Address: 4540 Pinto Dr. Boise ID 83709

Citizenship: USA Supervisor: Alan Wood

Signature: Derek J. Gochmour Date: _____

5. WITNESS

If there is only one inventor, a witness should sign and date this disclosure. A witness in this case is a non-inventor who understands the nature of the invention.

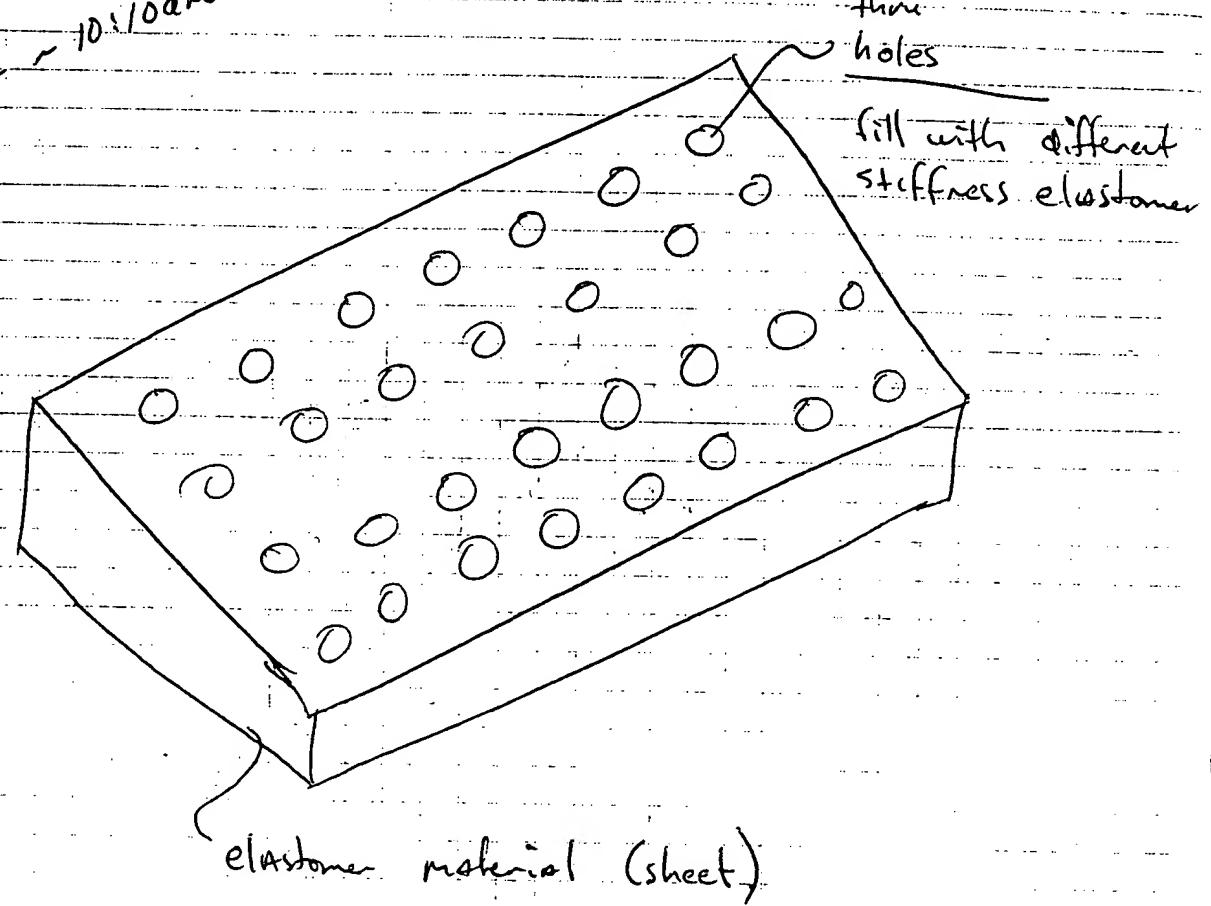
(Signature of Witness)

(Date)

Talking to Derek or ~~some~~ form ideas after our am running meeting.

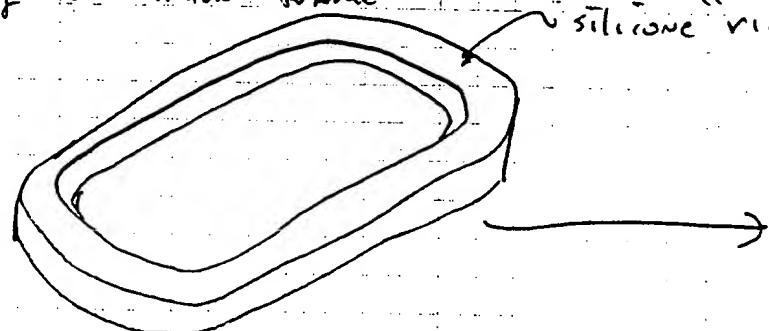
How to make "solids" act as a foam/gel: (our bid pressure mechanism)

2-19-97 70:10am

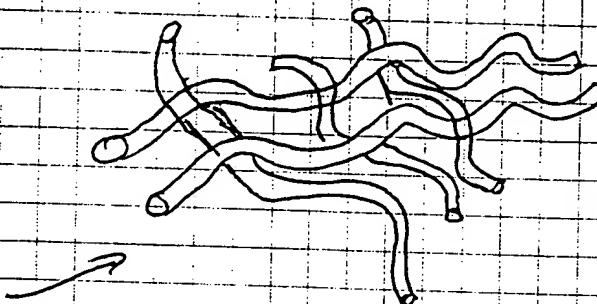


mold foam around silicone balls or columns? or silicone sheet punched out with holes in it.

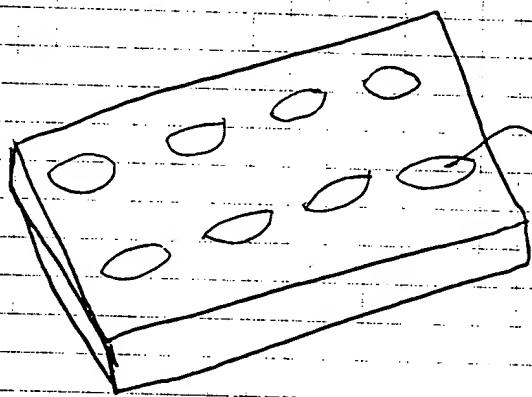
Derek had an idea of a "window frame" milled or die cut .. silicone "ring" - ring



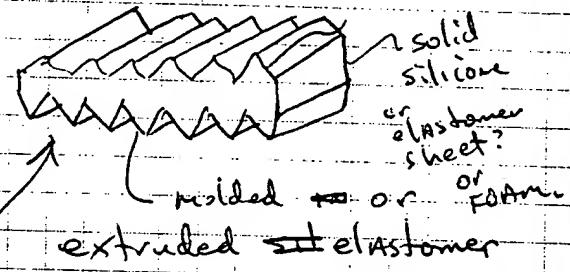
another idea: woven silicon threads interlaced. (cured silicon threads)



Like the gel-pack ~~foam~~ ~~foam~~ "threads" under the gel-pack material in gel-pak shipping trays.

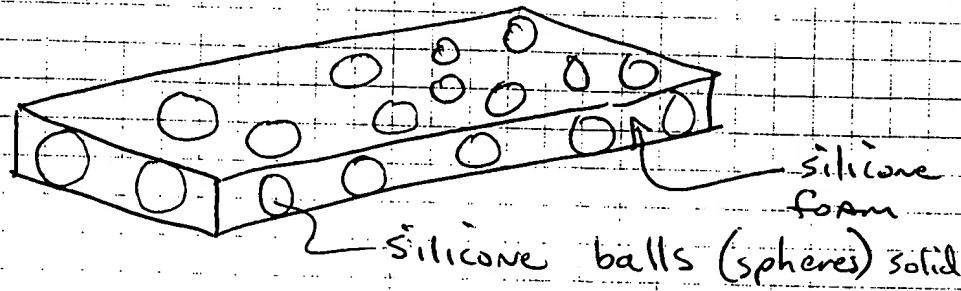


eggcrate type molded coupon.



Variable force - low force for low deflections, higher force with more deflection.

added this to disclaimer:

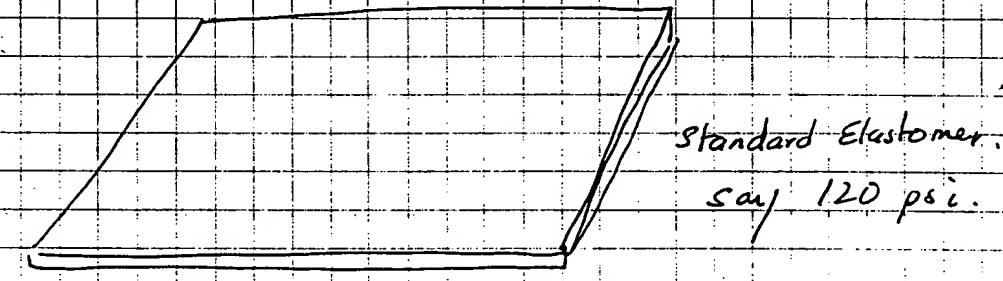


Meeting with ROGERS.
and BOYD.

- Karla Takasumi
- Tami Cayton.

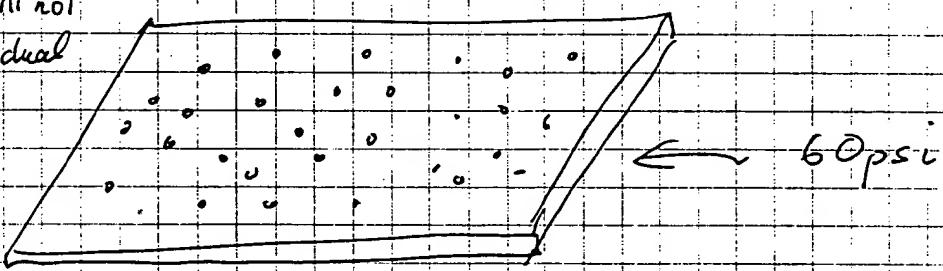
Rogers bought BISCO (which was Dow Corning)
Dow/BISCO no longer exists. Rogers product is
PORON, everything now will be poron.

LOW PSI FROM
METHOD OF FORMING A HIGH PSI ELASTOMERS,
AND ELASTOMERS WITH A VARIABLE PSI



Use water Drill to Drill small holes. till we have 60 psi
elastomer.

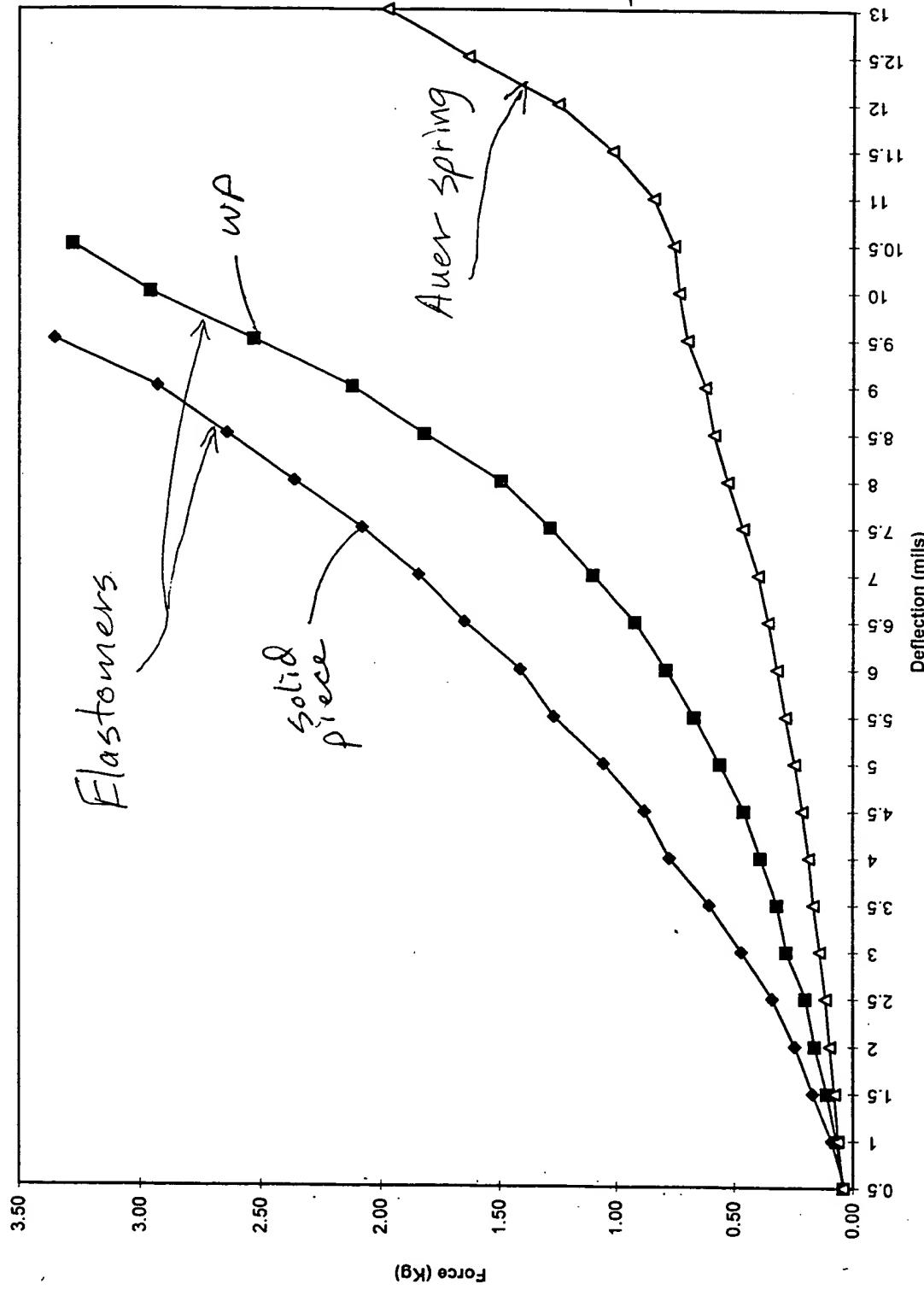
Thin will not
leave residual
oils or
particles



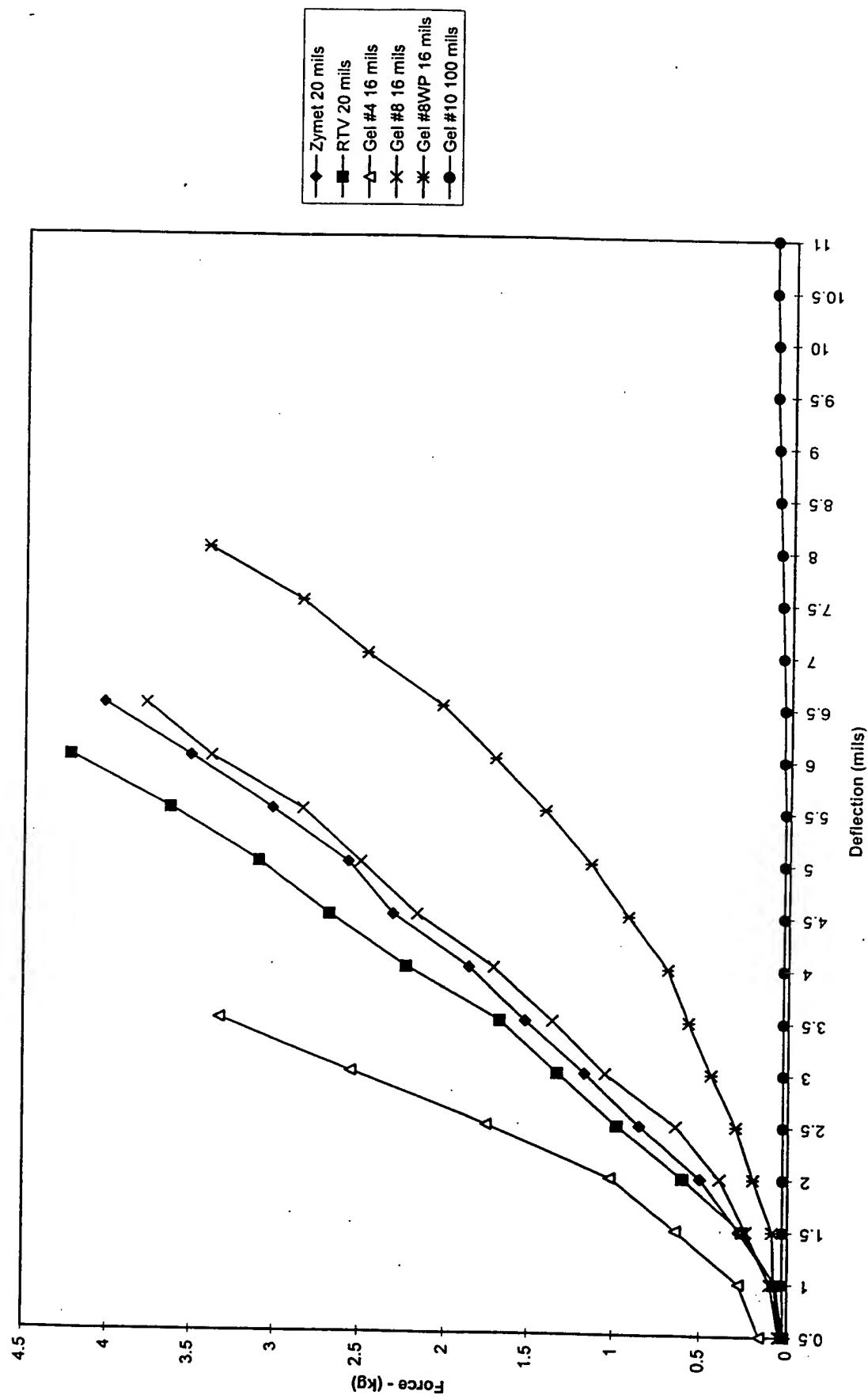
Drill even more holes

to get a 20 psi material. *Some*

Force vs. deflection curves



Elastomer deflection vs. force





Mr. Timothy W. Hagan
KILLWORTH, GOTTMAN, HAGAN
& SCHAEFF
One Dayton Centre
One South Main Street, Suite 500
Dayton, Ohio 45402-2023

Re: NEW CASE ASSIGNMENTS

MI 0 018	96-1138	- USING FACET ETCH TO CREATE A GRADUAL SLOPE CONTACT FOR BETTER MEATL STEP COVERAGE
MI 0 019	97-0359	- HIGH SELECTIVITY ETCHING OF OXIDE LAYERS USING WET HF CONTAINING SOLUTIONS AND A HF VAPOR ETCHER THROUGH A CLUSTERED TECHNIQUE FOR DOUBLE SIDED SELECTIVE HSG POST CMP BPSG ETCH BACK APPLICATIONS
MI 0 020	97-0198	- METHOD OF MAKING LOW PSI FROM HIGH PSI ELASTOMERS OR OTHER DIFFERENT PSI MATERIALS
MI 0 021	97-0123	- METHOD OF SURFACE CHARGE REDUCTION DURING BIAS DEPOSITION
MI 0 022	97-0156	- DIE PADDLE STABILITY FEATURE FOR PLASTIC PACKAGES
MI 0 023	97-0350	- METHOD TO PROCESS WAFERS IN A SEMICONDUCTOR FABRICATION SYSTEM

Dear Tim:

Enclosed are disclosures for U.S. Patent applications which we would like for your firm to prepare for us. Please prepare a patent application for each case; drafting system, product, and process claims in every application where possible.

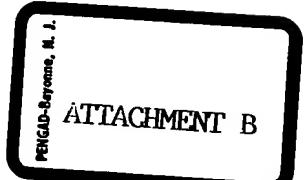
Each of these cases should be assigned to Micron Technology, Inc., a Delaware corporation.

Should you have any questions, please do not hesitate to contact me. Thank you for your help.

Yours very truly,

Mike / dh
Michael L. Lynch
Chief Patent Counsel
(208) 368-3484

MLL/dh
Enclosure





Country Applications
Record 4066 on screen

New record written

Country Application Data

Case Number: MIO020

Country: USA

Sub Case:

Case Type: ORD

Application Status: UNFILED

Application Number:

Filing Date: / /

Patent Number:

Issue Date: / /

Publication Date: / /

Expiration/Foreign Only: / /

Agent: KGHS

Agent Reference Number: 97-0198

Tax Schedule:

Paid thru:

Remarks: OPENED NEW FILE

NO BAR DATE PER TWH

Filing Filing Filing
Calculated Deadlines

Action Taken

Maintenance Fees Due

(U.S. only)

Paid

/ / STATUS / / no
/ / FORGN FLNG / / no
/ / PRIOR ART / / no

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/ /
/ /

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Outstanding Action: 1ST DRAFT

Today's Date:

Last Update:

Press F10, to enter/update actions

F4CMDHELP ESCEXIT F2SAVE SH-F1TABLE F3VIEW F7DEL F8MODIFY F9QBE F10M

PENCO-Byrnes, A.L.J.

ATTACHMENT C

KILLWORTH, GOTTMAN, HAGAN & SCHAEFF, L.L.P.

ATTORNEYS AT LAW

ONE DAYTON CENTRE

ONE SOUTH MAIN STREET, SUITE 500

DAYTON, OHIO 45402-2023

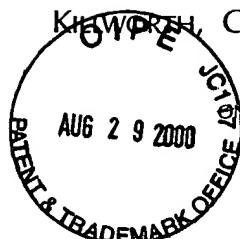
937/223-2050

FACSIMILE: 937/223-0724

EMAIL: KGHS@KGHS.COM

RICHARD A. KILLWORTH
JAMES F. GOTTMAN
TIMOTHY W. HAGAN
B. JOSEPH SCHAEFF
RICHARD C. STEVENS
ROBERT L. SHOWALTER
KIMBERLY GAMBREL

JODY H. ARMSTRONG
JAMES E. BEYER



BRADLEY A. KELLER
STEPHEN A. CALOGERO
CHARLOTTE L. BARNEY

PATENT AGENT
SUSAN M. LUNA

OF COUNSEL
DAVID A. SHOUGH

VIA FEDERAL EXPRESS

Ms. Trish Homan-Haider
Micron Technology, Inc.
8000 South Federal Way
Boise, ID 83706-9632

Re: **U.S. Patent Application for A SPRING ELEMENT FOR USE IN AN APPARATUS FOR TESTING SEMICONDUCTOR DICE AND A METHOD OF MAKING**
Our Docket MIO 020 PA - Your Ref:

Dear Trish:

Enclosed please find four copies of a first draft of the above patent application, including a photocopy of the drawings. Please forward a copy to the inventors for their review.

I am aware of the following patents related to this application (copies enclosed):

Patent No.	Inventor(s)	Issue Date
4,667,154	Allerton, et al.	May 19, 1987
4,870,356	Tingley	September 26, 1989
5,014,967	Wolf, et al.	May 14, 1991
5,302,891	Wood, et al.	April 12, 1994
5,326,428	Farnworth, et al.	July 5, 1994
5,408,190	Wood, et al.	April 18, 1995
5,419,807	Akram, et al.	May 30, 1995
5,483,741	Akram, et al.	January 16, 1996
5,581,195	Lee, et al.	December 3, 1996
5,495,179	Wood, et al.	February 27, 1996



Haider

If the inventors or the Patent Department are aware of any more pertinent prior art, please have them provide me with copies as soon as possible.

Finally, based on discussions with the inventors, I understand that there has been no publication or commercial use of this invention to date. If this changes, please have one of the inventors contact me.

Very truly yours,

A handwritten signature in black ink, appearing to read "Steve".

Stephen A. Calogero

SAC:msb
Enclosures



MICRON

TECHNOLOGY, INC.

8000 South Federal Way
PO Box 6
Boise, ID 83707-0006
(208) 368-4000

Date: 11/13/97
Time: 1:07 PM
Pages: 1 (including cover sheet)

TO:

Name: Steve Calogero **Phone:** (937) 223-2050
Company: Killworth, Gottman, Hagan & Schaeff **Fax:** (937) 223-0724

FROM:

Name: Trish Homan-Haider **Phone:** (208) 368-4518
Patent Department **Fax:** (208) 368-5606

MESSAGE:

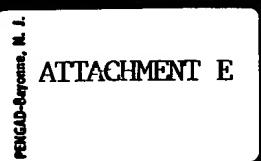
RE: MIO 020 PA - 97-0198

Steve: Per Mike Lynch, "Please file one with discovery for all, if practical. If not, file as many as necessary to cover all aspects fully."

If you have any questions, let me know.

Thanks. Trish

Confidentiality Notice: This message is intended only for the use of the individual or entity to which it is addressed and contains information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or an employee or agent responsible for delivering this message to the intended recipient, you are notified that any dissemination, distribution, or copying of this communication or the information contained herein is prohibited and may result in personal liability to you. If you have received this communication in error, please notify us by telephone immediately so that we can arrange for the retrieval of the documents at no cost to you..





RICHARD A. KILLWORTH
JAMES F. GOTTMAN
TIMOTHY W. HAGAN
B. JOSEPH SCHAEFF
RICHARD C. STEVENS
ROBERT L. SHOWALTER
KIMBERLY GAMBREL

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KILLWORTH, GOTTMAN, HAGAN & SCHAEFF, L.L.P.

ATTORNEYS AT LAW

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EMAIL: KGHS@KGHS.COM

BRADLEY A. KELLER
STEPHEN A. CALOGERO
CHARLOTTE L. BARNEY

PATENT AGENT
SUSAN M. LUNA

OF COUNSEL
DAVID A. SHOUGH

November 26, 1997

VIA FEDERAL EXPRESS

Trish Homan-Haider
Patent Assistant
Micron Technology, Inc.
8000 South Federal Way
Boise, ID 83706-9632

Re: **U.S. Patent Application for A SPRING ELEMENT FOR USE IN AN APPARATUS FOR ATTACHING TO A SEMICONDUCTOR AND A METHOD OF MAKING**
Our Docket MIO 020 PA - Your Ref: 97-0198

Dear Trish:

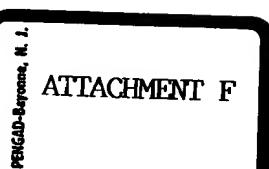
Enclosed please find six copies of the above patent application, including a photocopy of the drawings. Three of the six copies are clean copies of the second draft of the application while the other three copies highlight the changes between the first draft and the second draft. Please note that additions are shaded while deletions are crossed out. Please forward a clean copy and a highlighted copy of the application to the inventors for their review and comment.

Please return the inventors' comments to us as soon as possible so that we may enter any changes and forward the completed application to you along with the necessary papers for execution.

Very truly yours,

Stephen A. Calogero

SAC/kaa



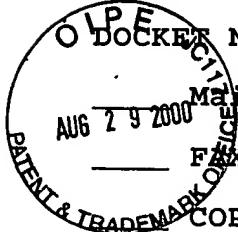
WORK REQUEST

DATE: 12/15/97

ATTORNEY/PARALEGAL: SLW

SECRETARY

DATE COMPLETED/INITIALS: 12/16/97 AMW



Mail (First Class) IP

Express Mail

FedEX

FAX (ONLY)

FAX and Send Confirmation Copy

COPY

Number of copies needed

Create New File - Title Same AS M10020 PA

Prepare Application for Review Signature

Prepare for Filing Reg. Mail Exp. Mail Certificate of Mailing

Prepare IDS

Fee Required

Other

Give to Clerk For Docketing Return file when finished

COMMENTS: CIP OF M10020 PA. MICROR NO. 97-0198.0



KILLWORTH, GOTTMAN, HAGAN & SCHAEFF, L.L.P.

ATTORNEYS AT LAW

ONE DAYTON CENTRE

ONE SOUTH MAIN STREET, SUITE 500

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937/223-2050

FACSIMILE: 937/223-0724

EMAIL: KGHS@KGHS.COM

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JAMES E. BEYER

January 14, 1998

VIA FEDERAL EXPRESS

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FOR USE IN AN APPARATUS FOR ATTACHING TO A
SEMICONDUCTOR AND A METHOD OF MAKING
Your Ref. 97-0198; Our Docket MIO 020 PA

Dear Trish:

Enclosed please find a copy of the above-referenced application, along with the formal papers for execution.

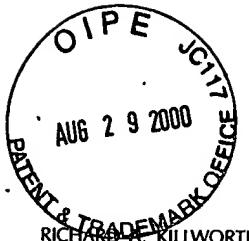
Please have David R. Hembree, Salman Akram, and Derek Gochnour sign and date the Declaration and Assignment where indicated. Note that the Assignment also needs to be notarized. Please have the Power of Attorney signed by the appropriate officer at Micron. After the documents have been properly executed, kindly return them to my attention and we will proceed with filing the application.

If you have any questions, please do not hesitate to call me.

Very truly yours,

Stephen A. Calogero

SAC:nmm
Enclosures



RICHARD A. KILLWORTH

JAMES F. GOTTMAN

TIMOTHY W. HAGAN

B. JOSEPH SCHAEFF

RICHARD C. STEVENS

ROBERT L. SHOWALTER

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ONE SOUTH MAIN STREET, SUITE 500

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937/223-2050

FACSIMILE: 937/223-0724

EMAIL: KGHS@KGHS.COM

January 15, 1998

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Patent No.	Inventor(s)	Issue Date
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4,870,356	Tingley	September 26, 1989
5,014,967	Wolf, et al.	May 14, 1991
5,302,891	Wood, et al.	April 12, 1994
5,326,428	Farnworth, et al.	July 5, 1994
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5,581,195	Lee, et al.	December 3, 1996
5,495,179	Wood, et al.	February 27, 1996



Trish Homan-Haider
January 15, 1998
Page 2

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Stephen A. Calogero

SAC:amm
Encls.



Jan 20 1998

January 19, 1998

Steve Calogero
KILLWORTH, GOTTMAN, HAGAN & SCHAEFF
One Dayton Centre
One South Main Street, Suite 500
Dayton, OH 45402-2023

RE: Micron Docket No. 97-0198
Your Reference No. MIO 020 PA
A SPRING ELEMENT FOR USE IN AN APPARATUS FOR ATTACHING TO
A SEMICONDUCTOR AND A METHOD OF MAKING

Dear Steve:

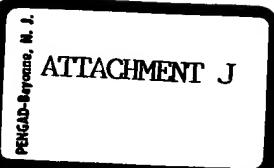
Enclosed please find the final draft for the above-referenced disclosure, as well as the formal signing documents.

If you have any questions, please do not hesitate to call. Thank you.

Sincerely,

Trish Homan-Haider
Patent Assistant

Enc.





UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTORNEY DOCKET NO.	DRWGS	TOT CL	IND CL
09/009,169	01/20/98	2858	\$2,742.00	MIOO20PA	5	64	15

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Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Application Processing Division's Customer Correction Branch within 10 days of receipt. Please provide a copy of the Filing Receipt with the changes noted thereon.

Applicant(s)

DAVID R. HEMBREE, BOISE, ID; SALMAN AKRAM, BOISE, ID;
DEREK GOCHNOUR, BOISE, ID.

FOREIGN FILING LICENSE GRANTED 04/14/98

TITLE

SPRING ELEMENT FOR USE IN AN APPARATUS FOR ATTACHING TO A SEMICONDUCTOR AND A METHOD OF MAKING

PRELIMINARY CLASS: 324





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February 16, 1998

VIA FEDERAL EXPRESS

Trish Homan-Haider
Micron Technology, Inc.
8000 South Federal Way
Boise, ID 83706-9632

Re: U.S. Patent Application for **A SPRING ELEMENT FOR USE IN AN APPARATUS FOR ATTACHING TO A SEMICONDUCTOR AND A METHOD OF ATTACHING**
Our Docket MIO 020 IA - Your Ref. 97-0198.01

Dear Trish:

I have revised the draft of the above application and believe the application is now ready for execution. The formal papers are enclosed.

If everything is now in order, would you have David R. Hembree, Salman Akram and Derek Gochnour sign and date the papers where indicated. Note that the assignment should be notarized. Please then return all documents as executed to us and we will proceed with filing the application.

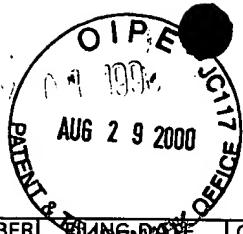
If you have any questions or would like to make any suggestions, please do not hesitate to call me.

Very truly yours,

Stephen A. Calogero

SAC:amm
Encls. (5 copies of application
and one copy for execution)

FILING RECEIPT



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
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Washington, D.C. 20231

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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTORNEY DOCKET NO.	DRWGS	TOT CL	IND CL
09/026,080	02/19/98	2812	\$2,694.00	MI0-020-IA	9	73	12

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Applicant(s)

DAVID R. HEMBREE, BOISE, ID; SALMAN AKRAM, BOISE, ID;
DEREK GOCHNOUR, BOISE, ID.

CONTINUING DATA AS CLAIMED BY APPLICANT-
THIS APPN IS A CIP OF 09/009,169 01/20/98

FOREIGN FILING LICENSE GRANTED 04/20/98

TITLE

SPRING ELEMENT FOR USE IN AN APPARATUS FOR ATTACHING TO A SEMICONDUCTOR AND A METHOD OF ATTACHING

PRELIMINARY CLASS: 029



(see reverse)